

# Mechanics

## Solution Set II

September 26, 2019

**Problem 2** Let the speed of the acrobat when he reaches height  $h$  be  $v$ . Then

$$\begin{aligned} v^2 - v_0^2 &= -2gh \\ \implies v &= \sqrt{v_0^2 - 2gh} \end{aligned}$$

The (vertical component of) momentum of the acrobat (plus monkey) just before the monkey is picked up is  $P_i = Mv$ . The momentum just after the monkey is picked up is  $P_f = (M + m)v'$  where  $v'$  is their velocity. From (approximate) conservation of momentum,  $P_f = P_i$  which gives

$$v' = \frac{M}{M + m}v$$

At the top, their velocity is zero. If they rise together by height  $h'$ , then

$$\begin{aligned} 0 - v'^2 &= -2gh' \\ \implies h' &= \frac{1}{2g}v'^2 \\ &= \left(\frac{M}{M + m}\right)^2 \left[\frac{v_0^2}{2g} - h\right] \end{aligned}$$

**Problem 3**

The rocket equation applied to this system gives

$$M \frac{dv}{dt} = -\frac{dM}{dt} v_0 - \mu Mg$$

Let the initial mass be  $M_0$ . Time  $t_0$  after which half the mass is used up is

$$t_0 = \frac{M_0}{2\gamma}$$

In an infinitesimal duration  $dt$ , the change in velocity satisfies

$$dv = -\frac{dM}{M} v_0 - \mu g dt$$

Integrating upto time  $t_0$  gives

$$\begin{aligned} v(t_0) &= -v_0 \ln\left(\frac{1}{2}\right) - \mu g t_0 \\ &= v_0 \ln 2 - \frac{\mu g M_0}{2\gamma} \end{aligned}$$

**Problem 4**

Let the instantaneous mass of the freight car be  $M(t)$  and its velocity be  $v(t)$ . The horizontal component of momentum of the freight car plus mass  $\Delta m$  of sand about to fall on to it in duration  $\Delta t$  is  $P(t) = M(t)v(t)$ . The

# Mechanics Physics Problems And Solutions

**Ioan Merches, Daniel Radu**



## **Mechanics Physics Problems And Solutions:**

Problems And Solutions On Mechanics (Second Edition) Swee Cheng Lim, Choy Heng Lai, Leong-chuan Kwek, 2020-06-22  
This volume is a compilation of carefully selected questions at the PhD qualifying exam level including many actual questions from Columbia University University of Chicago MIT State University of New York at Buffalo Princeton University University of Wisconsin and the University of California at Berkeley over a twenty year period Topics covered in this book include dynamics of systems of point masses rigid bodies and deformable bodies Lagrange's and Hamilton's equations and special relativity This latest edition has been updated with more problems and solutions and the original problems have also been modernized excluding outdated questions and emphasizing those that rely on calculations The problems range from fundamental to advanced in a wide range of topics on mechanics easily enhancing the student's knowledge through workable exercises Simple to solve problems play a useful role as a first check of the student's level of knowledge whereas difficult problems will challenge the student's capacity on finding the solutions

**Analytical Mechanics** Ioan Merches, Daniel Radu, 2014-08-26 Giving students a thorough grounding in basic problems and their solutions Analytical Mechanics Solutions to Problems in Classical Physics presents a short theoretical description of the principles and methods of analytical mechanics followed by solved problems The authors thoroughly discuss solutions to the problems by taking a comprehensive approach to explore the methods of investigation They carefully perform the calculations step by step graphically displaying some solutions via Mathematica 4.0 This collection of solved problems gives students experience in applying theory Lagrangian and Hamiltonian formalisms for discrete and continuous systems Hamilton Jacobi method variational calculus theory of stability and more to problems in classical physics The authors develop some theoretical subjects so that students can follow solutions to the problems without appealing to other reference sources This has been done for both discrete and continuous physical systems or in analytical terms systems with finite and infinite degrees of freedom The authors also highlight the basics of vector algebra and vector analysis in Appendix B They thoroughly develop and discuss notions like gradient divergence curl and tensor together with their physical applications There are many excellent textbooks dedicated to applied analytical mechanics for both students and their instructors but this one takes an unusual approach with a thorough analysis of solutions to the problems and an appropriate choice of applications in various branches of physics It lays out the similarities and differences between various analytical approaches and their specific efficiency

**Solved Problems in Classical Mechanics** O. L. de Lange, J. Pierrus, 2010-05-06 Apart from an introductory chapter giving a brief summary of Newtonian and Lagrangian mechanics this book consists entirely of questions and solutions on topics in classical mechanics that will be encountered in undergraduate and graduate courses These include one two and three dimensional motion linear and nonlinear oscillations energy potentials momentum and angular momentum spherically symmetric potentials multi particle systems rigid bodies translation and rotation of the reference frame the relativity principle and some of its

consequences The solutions are followed by a set of comments intended to stimulate inductive reasoning and provide additional information of interest Both analytical and numerical computer techniques are used to obtain and analyze solutions The computer calculations use Mathematica version 7 and the relevant code is given in the text It includes use of the interactive Manipulate function which enables one to observe simulated motion on a computer screen and to study the effects of changing parameters The book will be useful to students and lecturers in undergraduate and graduate courses on classical mechanics and students and lecturers in courses in computational physics

**Physics Problems with Solutions - Mechanics** Octavian Radu,2014-11-10 This book is a collection of Physics problems useful for preparing Olympiads and Contests *Resources in Education* ,1990-04 *Solved Problems in Analysis* Orin J. Farrell,Bertram Ross,2013-01-01 Originally published New York Macmillan 1963 under title Solved problems gamma and beta functions Legendre polynomials Bessel functions

**Zero to Hero Physics Volume 01 for High School & College** SATYAM SIR,2024-02-20 This physics book volume 01 contain 10 chapters 1 Basic Math 2 Kinematics 3 Force 4 Energy 5 Rotation 6 Gravitation 7 Mechanical Properties 8 Thermal Properties 9 Oscillations 10 Waves Each chapter is divided into several subtopics where it has levelwise easy medium and difficult problems on every subtopic It is a collection of more than 300 Physics Problems for IIT JEE Mains and JEE Advanced NEET CBSE Boards NCERT Book AP Physics SAT Physics Olympiad Level questions Key Features of this book Sub topic wise Questions with detailed Solutions Each Topic has Level 1 Level 2 Level 3 Questions Chapter wise Test with Level 1 Level 2 Level 3 Difficulty More than 300 Questions from Each Chapter About Author Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been teaching Physics for JEE Mains and Advanced for more than 8 years He has mentored over ten thousand students and continues mentoring in regular classroom coaching The students from his class have made into IIT institutions including ranks in top 100 The main goal of this book is to enhance problem solving ability in students Sir is having hope that you would enjoy this journey of learning physics In case of query visit [www.physicsfactor.com](http://www.physicsfactor.com) or whatsapp to our customer care number 91 6361109416

**Problems in Classical and Quantum Mechanics** J. Daniel Kelley,Jacob J. Leventhal,2016-11-30 This book is a collection of problems that are intended to aid students in graduate and undergraduate courses in Classical and Quantum Physics It is also intended to be a study aid for students that are preparing for the PhD qualifying exam Many of the included problems are of a type that could be on a qualifying exam Others are meant to elucidate important concepts Unlike other compilations of problems the detailed solutions are often accompanied by discussions that reach beyond the specific problem The solution of the problem is only the beginning of the learning process it is by manipulation of the solution and changing of the parameters that a great deal of insight can be gleaned The authors refer to this technique as massaging the problem and it is an approach that the authors feel increases the pedagogical value of any problem

**Mathematical Aspects of Numerical Solution of Hyperbolic Systems** A.G. Kulikovskii,N.V. Pogorelov,A. Yu. Semenov,2000-12-21 This important new book sets forth a comprehensive

description of various mathematical aspects of problems originating in numerical solution of hyperbolic systems of partial differential equations The authors present the material in the context of the important mechanical applications of such systems including the Euler equations of gas dynamics magnetohydrodynamics MHD shallow water and solid dynamics equations This treatment provides for the first time in book form a collection of recipes for applying higher order non oscillatory shock capturing schemes to MHD modelling of physical phenomena The authors also address a number of original nonclassical problems such as shock wave propagation in rods and composite materials ionization fronts in plasma and electromagnetic shock waves in magnets They show that if a small scale higher order mathematical model results in oscillations of the discontinuity structure the variety of admissible discontinuities can exhibit disperse behavior including some with additional boundary conditions that do not follow from the hyperbolic conservation laws Nonclassical problems are accompanied by a multiple nonuniqueness of solutions The authors formulate several selection rules which in some cases easily allow a correct physically realizable choice This work systematizes methods for overcoming the difficulties inherent in the solution of hyperbolic systems Its unique focus on applications both traditional and new makes Mathematical Aspects of Numerical Solution of Hyperbolic Systems particularly valuable not only to those interested the development of numerical methods but to physicists and engineers who strive to solve increasingly complicated nonlinear equations

A Guide to Physics Problems Sidney B. Cahn, Boris E. Nadgorny, 1994-08-31 In order to equip hopeful graduate students with the knowledge necessary to pass the qualifying examination the authors have assembled and solved standard and original problems from major American universities Boston University University of Chicago University of Colorado at Boulder Columbia University of Maryland University of Michigan Michigan State Michigan Tech MIT Princeton Rutgers Stanford Stony Brook University of Wisconsin at Madison and Moscow Institute of Physics and Technology A wide range of material is covered and comparisons are made between similar problems of different schools to provide the student with enough information to feel comfortable and confident at the exam Guide to Physics Problems is published in two volumes this book Part 1 covers Mechanics Relativity and Electrodynamics Part 2 covers Thermodynamics Statistical Mechanics and Quantum Mechanics Praise for A Guide to Physics Problems Part 1 Mechanics Relativity and Electrodynamics Sidney Cahn and Boris Nadgorny have energetically collected and presented solutions to about 140 problems from the exams at many universities in the United States and one university in Russia the Moscow Institute of Physics and Technology Some of the problems are quite easy others are quite tough some are routine others ingenious From the Foreword by C N Yang Nobelist in Physics 1957 Generations of graduate students will be grateful for its existence as they prepare for this major hurdle in their careers R Shankar Yale University The publication of the volume should be of great help to future candidates who must pass this type of exam J Robert Schrieffer Nobelist in Physics 1972 I was positively impressed The book will be useful to students who are studying for their examinations and to faculty who are searching for appropriate problems M L Cohen University of California

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of the 21st International Workshop on Computer Algebra in Scientific Computing CASC 2019 held in Moscow Russia in August 2019 The 28 full papers presented together with 2 invited talks were carefully reviewed and selected from 44 submissions They deal with cutting edge research in all major disciplines of computer algebra The papers cover topics such as polynomial algebra symbolic and symbolic numerical computation applications of symbolic computation for investigating and solving ordinary differential equations applications of CASs in the investigation and solution of celestial mechanics problems and in mechanics physics and robotics

**Mechanical Vibration** Haym Benaroya, Mark Nagurka, 2009-06-10  
**Mechanical Vibration Analysis Uncertainties and Control** simply and comprehensively addresses the fundamental principles of vibration theory emphasizing its application in solving practical engineering problems The authors focus on strengthening engineers command of mathematics as a cornerstone for understanding vibration control and the ways in which uncertainties affect analysis It provides a detailed exploration and explanation of the essential equations involved in modeling vibrating systems and shows readers how to employ MATLAB as an advanced tool for analyzing specific problems Forgoing the extensive and in depth analysis of randomness and control found in more specialized texts this straightforward easy to follow volume presents the format content and depth of description that the authors themselves would have found useful when they first learned the subject The authors assume that the readers have a basic knowledge of dynamics mechanics of materials differential equations and some knowledge of matrix algebra Clarifying necessary mathematics they present formulations and explanations to convey significant details The material is organized to afford great flexibility regarding course level content and usefulness in self study for practicing engineers or as a text for graduate engineering students This work includes example problems and explanatory figures biographies of renowned contributors and access to a website providing supplementary resources These include an online MATLAB primer featuring original programs that can be used to solve complex problems and test solutions

**Variational Methods for the Numerical Solution of Nonlinear Elliptic Problem** Roland Glowinski, 2015-11-04  
**Variational Methods for the Numerical Solution of Nonlinear Elliptic Problems** addresses computational methods that have proven efficient for the solution of a large variety of nonlinear elliptic problems These methods can be applied to many problems in science and engineering but this book focuses on their application to problems in continuum mechanics and physics This book differs from others on the topic by presenting examples of the power and versatility of operator splitting methods providing a detailed introduction to alternating direction methods of multipliers and their applicability to the solution of nonlinear possibly nonsmooth problems from science and engineering and showing that nonlinear least squares methods combined with operator splitting and conjugate gradient algorithms provide efficient tools for the solution of highly nonlinear problems The book provides useful insights suitable for advanced graduate students faculty and researchers in applied and computational mathematics as well as research engineers mathematical physicists and systems engineers

Computational Fluid and Solid Mechanics 2003 K.J Bathe, 2003-06-02 Bringing together

the world's leading researchers and practitioners of computational mechanics these new volumes meet and build on the eight key challenges for research and development in computational mechanics Researchers have recently identified eight critical research tasks facing the field of computational mechanics These tasks have come about because it appears possible to reach a new level of mathematical modelling and numerical solution that will lead to a much deeper understanding of nature and to great improvements in engineering design The eight tasks are The automatic solution of mathematical models Effective numerical schemes for fluid flows The development of an effective mesh free numerical solution method The development of numerical procedures for multiphysics problems The development of numerical procedures for multiscale problems The modelling of uncertainties The analysis of complete life cycles of systems Education teaching sound engineering and scientific judgement Readers of Computational Fluid and Solid Mechanics 2003 will be able to apply the combined experience of many of the world's leading researchers to their own research needs Those in academic environments will gain a better insight into the needs and constraints of the industries they are involved with those in industry will gain a competitive advantage by gaining insight into the cutting edge research being carried out by colleagues in academia Features Bridges the gap between academic researchers and practitioners in industry Outlines the eight main challenges facing Research and Design in Computational mechanics and offers new insights into the shifting the research agenda Provides a vision of how strong basic and exciting education at university can be harmonized with life long learning to obtain maximum value from the new powerful tools of analysis

*Numerical Analysis with Applications in Mechanics and Engineering* Petre Teodorescu, Nicolae-Doru Stanescu, Nicolae Pandrea, 2013-06-04

**NUMERICAL ANALYSIS WITH APPLICATIONS IN MECHANICS AND ENGINEERING** A much needed guide on how to use numerical methods to solve practical engineering problems Bridging the gap between mathematics and engineering Numerical Analysis with Applications in Mechanics and Engineering arms readers with powerful tools for solving real world problems in mechanics physics and civil and mechanical engineering Unlike most books on numerical analysis this outstanding work links theory and application explains the mathematics in simple engineering terms and clearly demonstrates how to use numerical methods to obtain solutions and interpret results Each chapter is devoted to a unique analytical methodology including a detailed theoretical presentation and emphasis on practical computation Ample numerical examples and applications round out the discussion illustrating how to work out specific problems of mechanics physics or engineering Readers will learn the core purpose of each technique develop hands on problem solving skills and get a complete picture of the studied phenomenon Coverage includes How to deal with errors in numerical analysis Approaches for solving problems in linear and nonlinear systems Methods of interpolation and approximation of functions Formulas and calculations for numerical differentiation and integration Integration of ordinary and partial differential equations Optimization methods and solutions for programming problems Numerical Analysis with Applications in Mechanics and Engineering is a one of a kind guide for engineers using



mathematical models and methods as well as for physicists and mathematicians interested in engineering problems

**Solution of Initial-Boundary Value Problems** Umurdin Dalabaev, 2025-06-02 Methods for solving problems of mathematical physics can be divided into the following four classes Analytical methods the method of separation of variables the method of characteristics the method of Green's functions etc methods have a relatively low degree of universality i.e. focused on solving rather narrow classes of problems Approximate analytical methods projection variational methods small parameter method operational methods various iterative methods are more versatile than analytical ones Numerical methods finite difference method direct method control volume method finite element method etc are very universal methods Probabilistic methods Monte Carlo methods are highly versatile Can be used to calculate discontinuous solutions However they require large amounts of calculations and as a rule they lose with the computational complexity of the above methods when solving such problems to which these methods are applicable Comparing methods for solving problems of mathematical physics it is impossible to give unconditional primacy to any of them Any of them may be the best for solving problems of a certain class The proposed method of moving nodes for boundary value problems of differential equations combines a combination of numerical and analytical methods In this case we can obtain on the one hand an approximately analytical solution of the problem which is not related to the methods listed above On the other hand this method allows one to obtain compact discrete approximations of the original problem Note that obtaining an approximately analytical solution of differential equations is based on numerical methods The nature of numerical methods also allows obtaining an approximate analytical expression for solving differential equations

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